



Australian Bureau of Statistics

CensusAtSchool Australia

Education Services home page > CensusAtSchool home page > Year 5 Resources

Resources



CaSQ 15 - Bar Graphs of Favourite Music

You can download this activity as a rich text file (RTF) using the link at the bottom of the page.

How to: Get a Random Sample from CensusAtSchool

Go to the CensusAtSchool Random Sampler to download a sample.

Reference year: *(select year)* **Sample size:** *At least 50 students*

Select questions: *Favourite type of music*

Location: *Select location* **Year level:** *(select a range of year levels)*

To protect privacy there is a rule built into the sampler that the requested sample size cannot exceed 10% of the respondents for the parameters entered.

Task:

1. What's your favourite type of music?
2. Make a prediction of what you think will be the most popular favourite type of music in the random sample.
3. In your CensusAtSchool random sample, find the question about favourite type of music, and record first forty in the frequency table below.

If there is a blank cell in your data sample, go to the next cell.

Favourite type of Music	Frequency	Total	Percentage
Classical			
Country			
Jazz			
Metal (eg. Heavy metal)			
Pop			
Punk			
Rap/Hip hop			
Reggae			
Rhythm and Blues (R&B)			
Rock			
Techno/Electronic			
Other			
None			
Total			100%

4. Add the frequencies up to fill in the totals column. Calculate the percentages. Use the percentage to create a bar graph of favourite music.

5. Refer back to your answer for question 1. Is your favourite type of music the most popular category in your graph? If not, what is?

6. Refer back to your answer for question 2. Was your prediction of the favourite type of music in the random sample correct?

7. Why do we use percentage for comparison instead of the total?

8. Do you think the ages of the students from the random sample would affect the favourite type of music? Give reasons.

Extension:

1. Make a prediction of what you think will be the most popular favourite type of music in your class.

2. Create a table like the one on the previous page.

3. Conduct a survey with your class with the following CensusAtSchool question

What is your favourite type of music? Select one only.		
☐ Classical ☐ Country ☐ Jazz ☐ Metal (e.g. heavy metal) ☐ Pop	☐ Punk ☐ Rap/Hip Hop ☐ Reggae ☐ Rhythm and Blues (R&B)	☐ Rock ☐ Techno/Electronic ☐ Other ☐ None

4. Create a bar graph of percentages of favourite types of music for your class.

5. Write a paragraph comparing the graphs between your class and the random sample. Some things to address in your paragraph would be:

- a. Comparison of most popular and least popular types of music
- b. Patterns in the data, such as similarities between the data sets
- c. Is your prediction about your classes most popular favourite music correct?
- d. Is your favourite type of music the most popular?
- e. Why might the random sample and your class differ?

6. How would the results be different if we used totals instead of percentage? Would we be able to make a fair comparison between data sets if we did not use percentage?

7. Do you think the age of your class affects the favourite type of music? Give reasons.

Download the full activity:



[Back to top](#)

This page last updated 12 November 2013